



ST. LOUIS DISTRICT MOBILITY

QUARTERLY REGIONAL MOBILITY REPORT ■ MARCH / APRIL / MAY 2020 | EDITION NO. 11

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Provide Outstanding Customer Service & Deliver Transportation Services of Great Value

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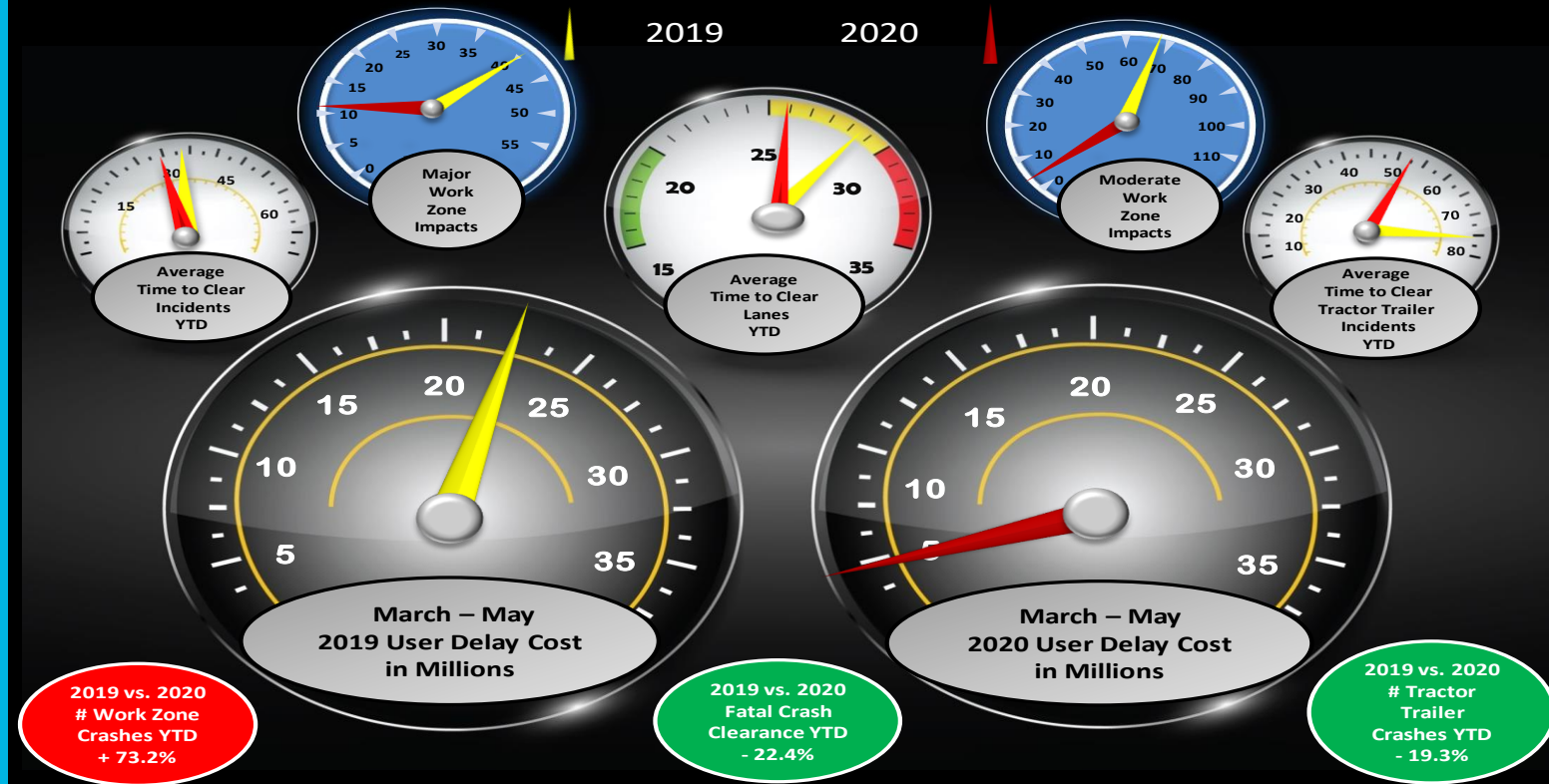
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Keep Customers and Ourselves Safe



User Delay Cost: Passenger Vehicle \$17.67 Commercial Vehicle \$68.09
Sources Texas Transportation Institute & American Transportation Research Institute

March 2019 thru May 2019 Grand Total and Average

Delay cost:	Vehicle Miles traveled (VMT)
Total \$22,201,122	Total: 2,199,086,597 miles
Hours of delay	Passenger: 1,979,177,938 miles
Person-hours: 1,019,058h 22m	Commercial: 219,908,660 miles
Vehicle hours: 831,884h 22m	Delay per VMT: 0.0227 mins/mile

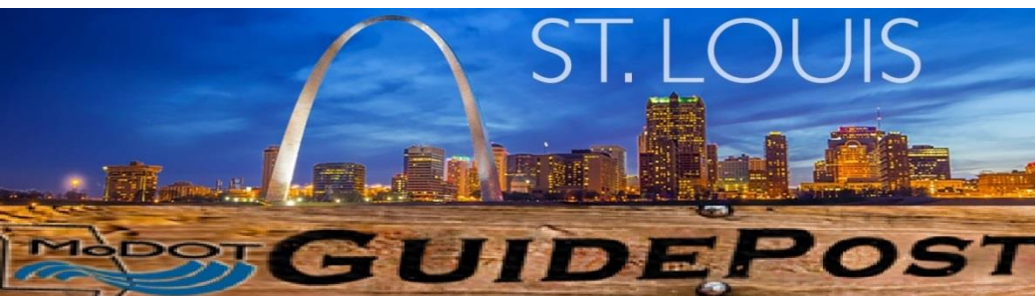
March 2020 thru May 2020 Grand Total and Average

Delay cost:	Vehicle Miles traveled (VMT)
Total \$4,522,707	Total: 2,249,753,223 miles
Hours of delay	Passenger: 2,024,777,901 miles
Person-hours: 207,597h 43m	Commercial: 224,975,322 miles
Vehicle hours: 169,467h 32m	Delay per VMT: 0.0045 mins/mile



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ZONING IN

Fatal Crash Clearance times improved by 22.4% in 2020 compared to 2019

The number of tractor trailer crashes decreased 19.3% compared to the Spring of 2019

Work zone crashes increased by 73.2% compared to Spring of 2019

Overall AM and PM Regional Mobility for the spring quarter increased dramatically due to COVID-19 stay at home orders

Westbound I-70 at Fifth Street took over the top congested spot this quarter with Westbound I-70 at Earth City Expressway placing 2nd

TMS Work Zones:

March 2020: 272

April 2020: 339

May 2020: 244

Work Zone Impact Breakdown:

Red	Major:	3– 0.4%
Yellow	Moderate:	4– 0.6%
Green	Minor:	665– 99.0%

WORK ZONE CRASHES: 62

Planned Event

Date: Entire Quarter

Location: Eastbound I-70 at Missouri River/Blanchette Bridge

Event Detail: Continued bridge rehabilitation work - daily lane closures and additional travel times of up to 52 minutes during non-peak hours.

Unplanned Event

Date: 3-20-2020

Location: Ramp from MO 364 to Southbound I-270 / Southbound I-270 past MO 364

Event Detail: Fatality crash with injuries. Multiple vehicles collided in the right lane and came to rest at the bottom of the ramp from Eastbound MO 364 to Southbound I-270. Due to the location of the incident, the ramp from Rte. D to Southbound I-270 and the mainline of Southbound I-270 had to be closed. Traffic queued 1 mile on the MO 364 eastbound ramp and 3.3 miles along Southbound I-270 mainline. Event lasted 3 hours 38 minutes.



EXECUTIVE SUMMARY

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Top 5 Congestion Locations / March – May 2019 vs. March – May 2020

***Locations ranked on Weighted Total Impact (Raw speed drop weighted by Vehicle Miles Traveled VMT Factor)**

	Congestion Locations 2019	*Weighted Total Impact	Average Queue Length Miles	Average Daily Duration	Total Duration
1	SB I-270 @ Dougherty Ferry Road	64,867,634	6.44	34m	2d 4h 34m
2	SB I-170 @ Galleria Parkway	56,965,503	1.56	2h 35m	9d 21h 45m
3	EB I-64 @ Big Bend Blvd	54,261,317	3.14	1h 13m	4d 16h 34m
4	WB I-64 @ Clayton Rd / Oakland Ave	51,555,108	2.39	1h 52 m	7d 4h 2m
5	EB I-64 @ Boland Pl	46,117,982	2.49	1h 21 m	5d 4h 45m

	Congestion Locations 2020	*Weighted Total Impact	Average Queue Length Miles	Average Daily Duration	Total Duration
1	WB I-70 @ Fifth St	25,818,056	3.78	17m	1d 2h 22m
2	WB I-70 @ Earth City Expressway	21,083,855	1.79	50m	3d 5h 51m
3	WB I-44 @ I-270	13,207,577	2.39	17m	1d 2h 37m
4	WB I-44 @ Highway Drive	12,783,692	2.28	6 m	10h 4m
5	EB I-44 @ Highway Drive	12,532,823	2.10	10m	16h 6m

Average Incident Duration Comparison / 2019 vs. 2020

Month	Average Incident Duration (Minutes : Seconds)	2019	2020
March	Lane Clearance	28:49	27:42
March	Incident Clearance	31:09	28:10
April	Lane Clearance	30:03	22:15
April	Incident Clearance	31:42	22:30
May	Lane Clearance	30:25	29:40
May	Incident Clearance	31:41	29:55

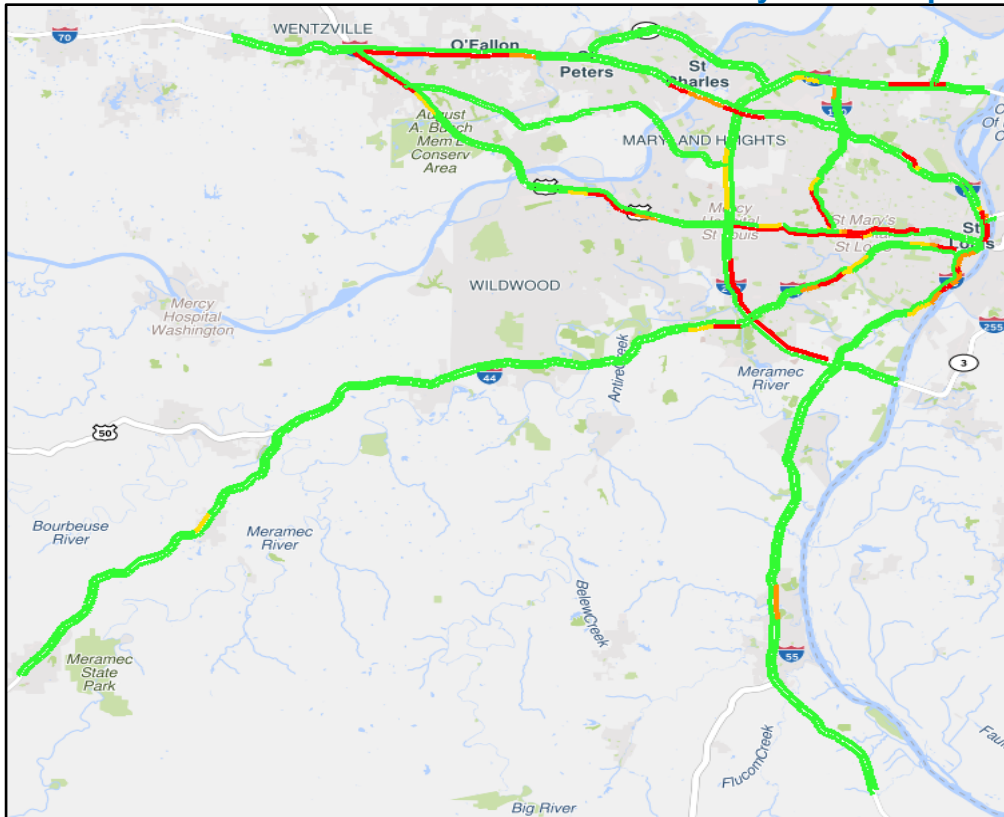


FREEWAY MANAGEMENT

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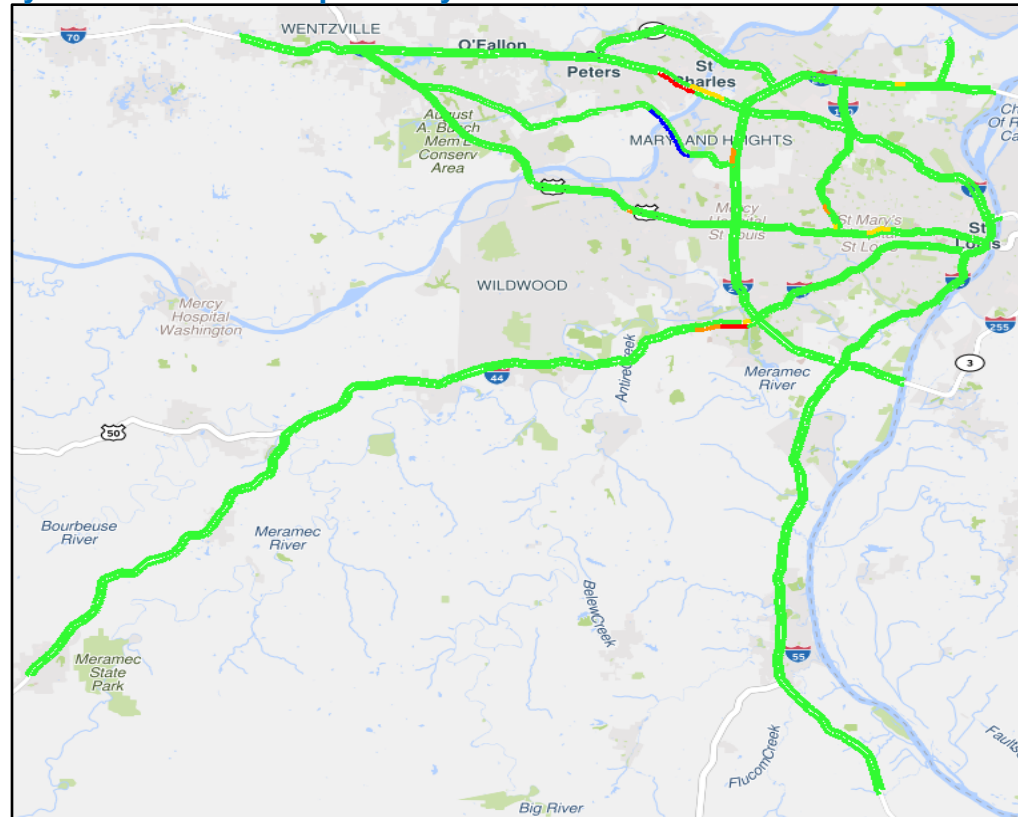
INCREASE in Overall AM Mobility

AM Peak Mobility March / April / May 2019 vs March / April / May 2020 *



2019

- > 90 % of free-flow speed
- 85% - 90 % of free-flow speed
- 80 % - 85 % of free-flow speed
- < 80 % of free-flow speed



2020

Regional % of free-flow speed hourly breakdown**:

	2019		2020
6 AM	100%	→	100%
7 AM	96.1%	→	100%
8 AM	97.4%	→	100%
9 AM	100%	→	100%

* 7am hour shown

** Regional % of free-flow speed is the averaged % of free-flow speeds for all directions of all freeways within the St. Louis District. This provides a high-level measurement of overall regional mobility for each peak hour.

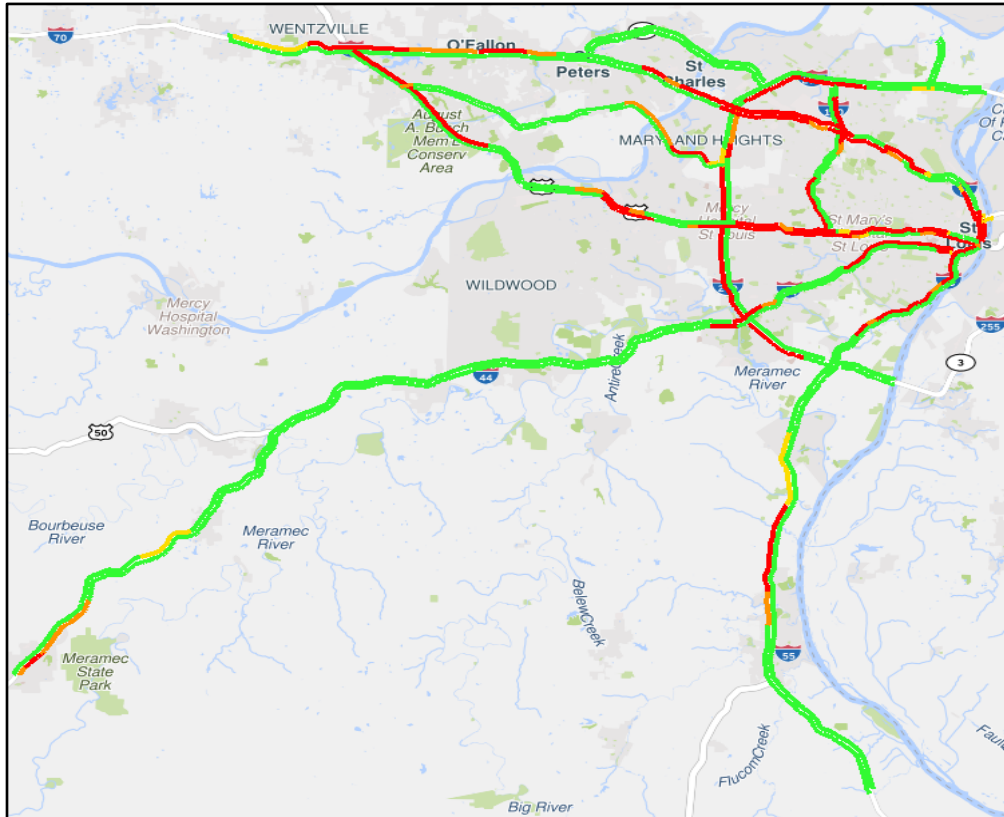


FREEWAY MANAGEMENT

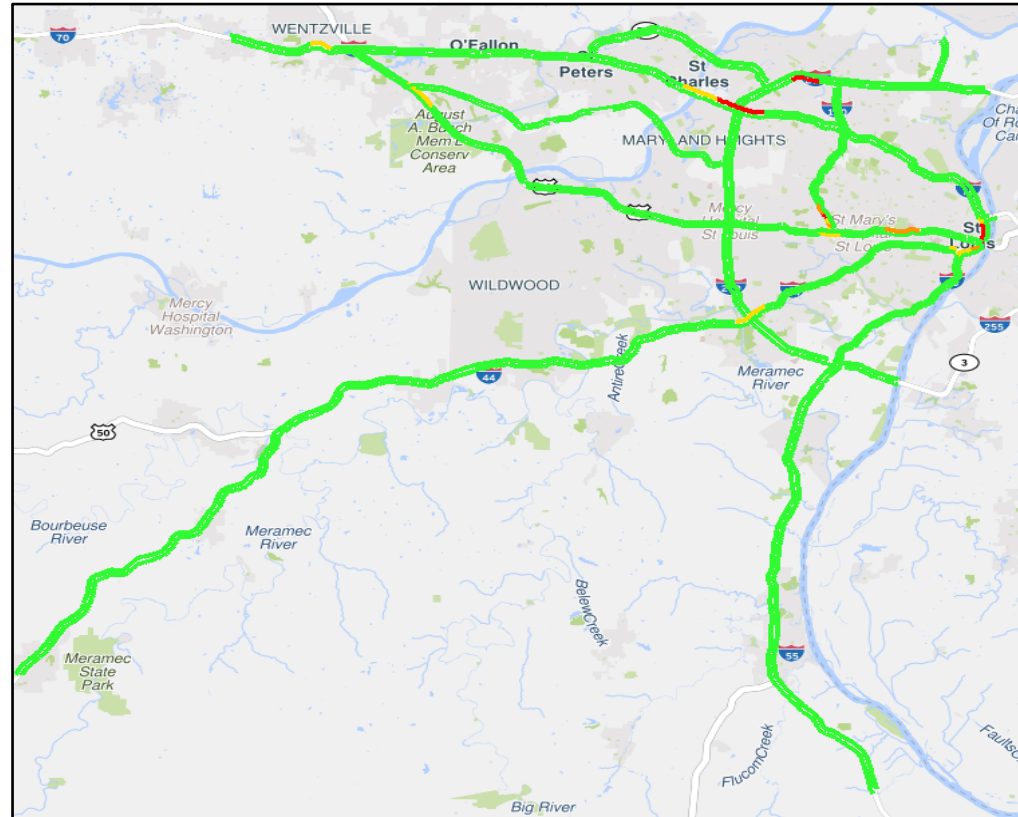
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INCREASE in Overall PM Mobility

PM Peak Mobility March / April / May 2019 vs March / April / May 2020 *



2019



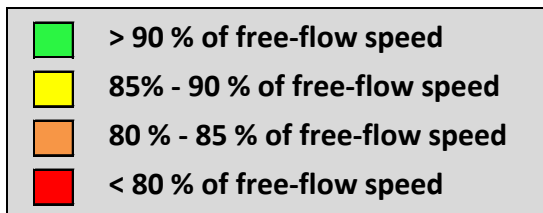
2020

Regional % of free-flow speed hourly breakdown**:

	2019		2020
3 PM	95.8%	→	100%
4 PM	86.6%	→	100%
5 PM	85.1%	→	100%
6 PM	98.7%	→	100%
7 PM	100%	→	100%

* 5pm hour shown

**Regional % of free-flow speed is the averaged % of free-flow speeds for all directions of all freeways within the St. Louis District. This provides a high-level measurement of overall regional mobility for each peak hour.





Top 5 Congestion Locations Comparison

Comparing Top 5 Congestion Locations of March / April / May 2019 to March / April / May 2020

- 1 SB I-270 at Dougherty Ferry Rd.
Mobility INCREASED from 2019 → 2020
- 2 SB I-170 at Galleria Parkway
Mobility INCREASED from 2019 → 2020
- 3 EB I-64 at Big Bend Blvd.
Mobility INCREASED from 2019 → 2020
- 4 WB I-64 at Clayton Rd. / Oakland Ave.
Mobility INCREASED from 2019 → 2020
- 5 EB I-64 at Boland Pl.
Mobility INCREASED from 2019 → 2020



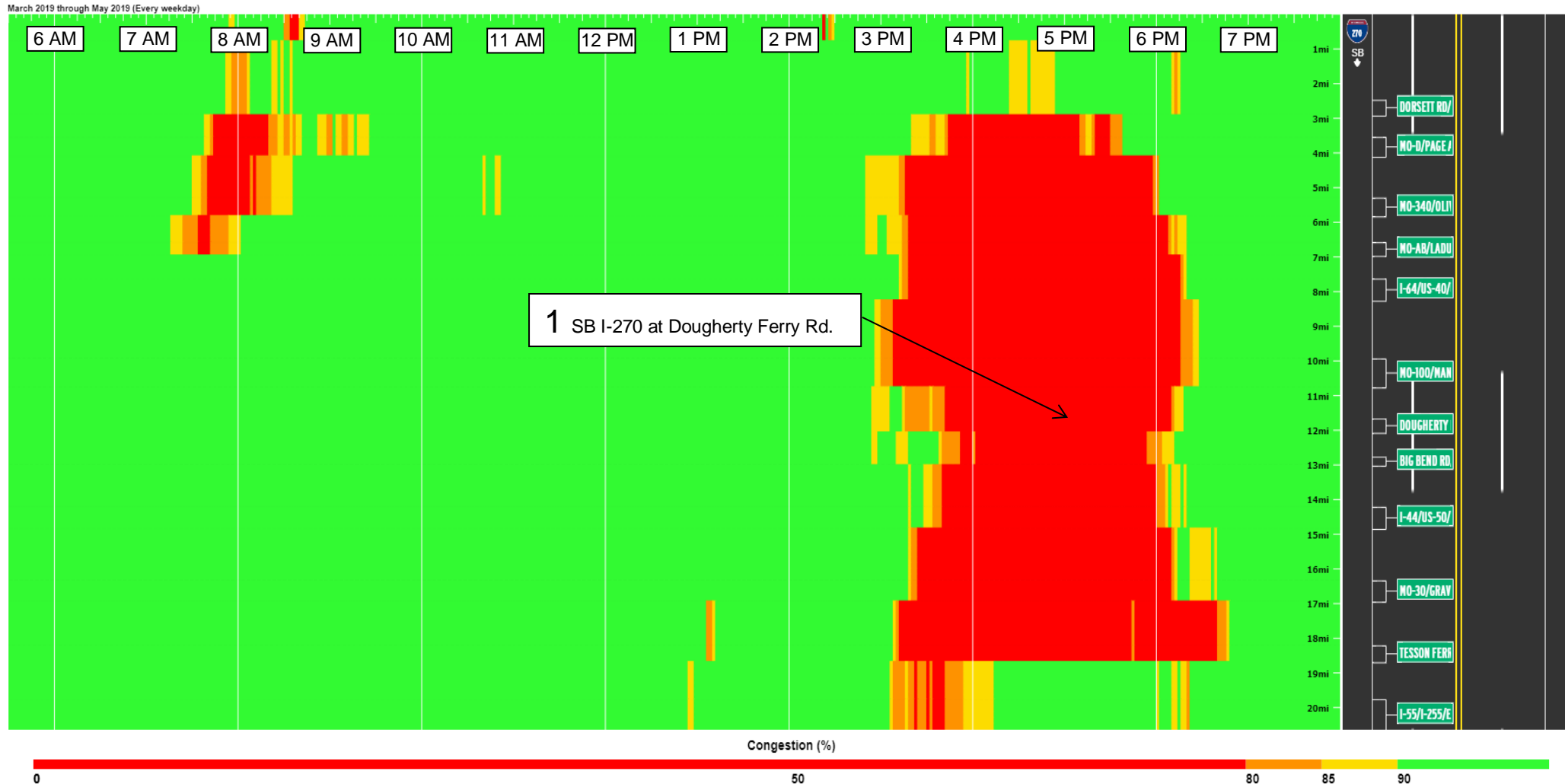
FREEWAY MANAGEMENT

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2019 SB I-270

Congestion for I-270 Southbound between I-55/I-255/Exit 1 and I-70 using HERE data

Averaged by 2 minutes for March 2019 through May 2019 (Every weekday)





FREEWAY MANAGEMENT

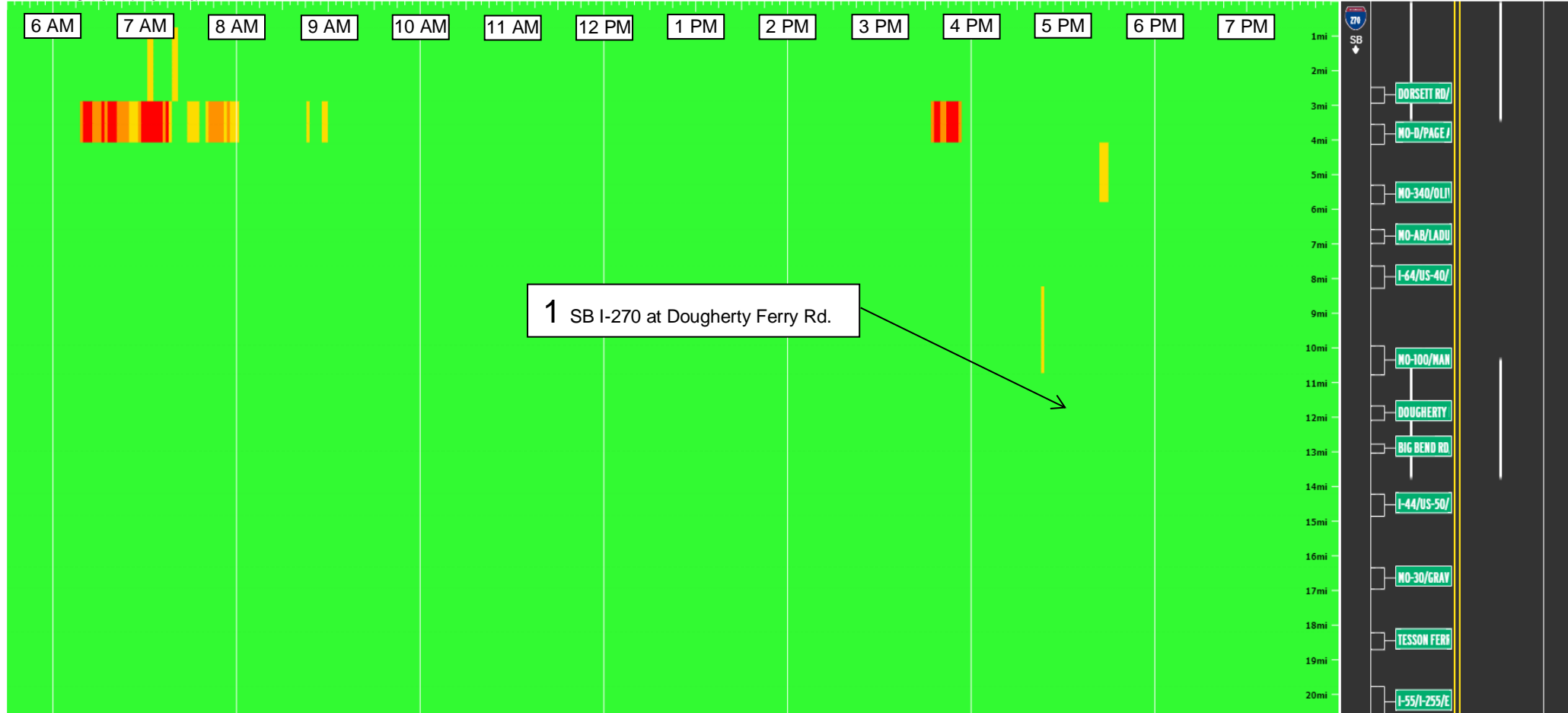
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2020 SB I-270

Congestion for I-270 Southbound between I-55/I-255/Exit 1 and I-70 using HERE data

Averaged by 2 minutes for March 2020 through May 2020 (Every weekday)

March 2020 through May 2020 (Every weekday)





FREEWAY MANAGEMENT

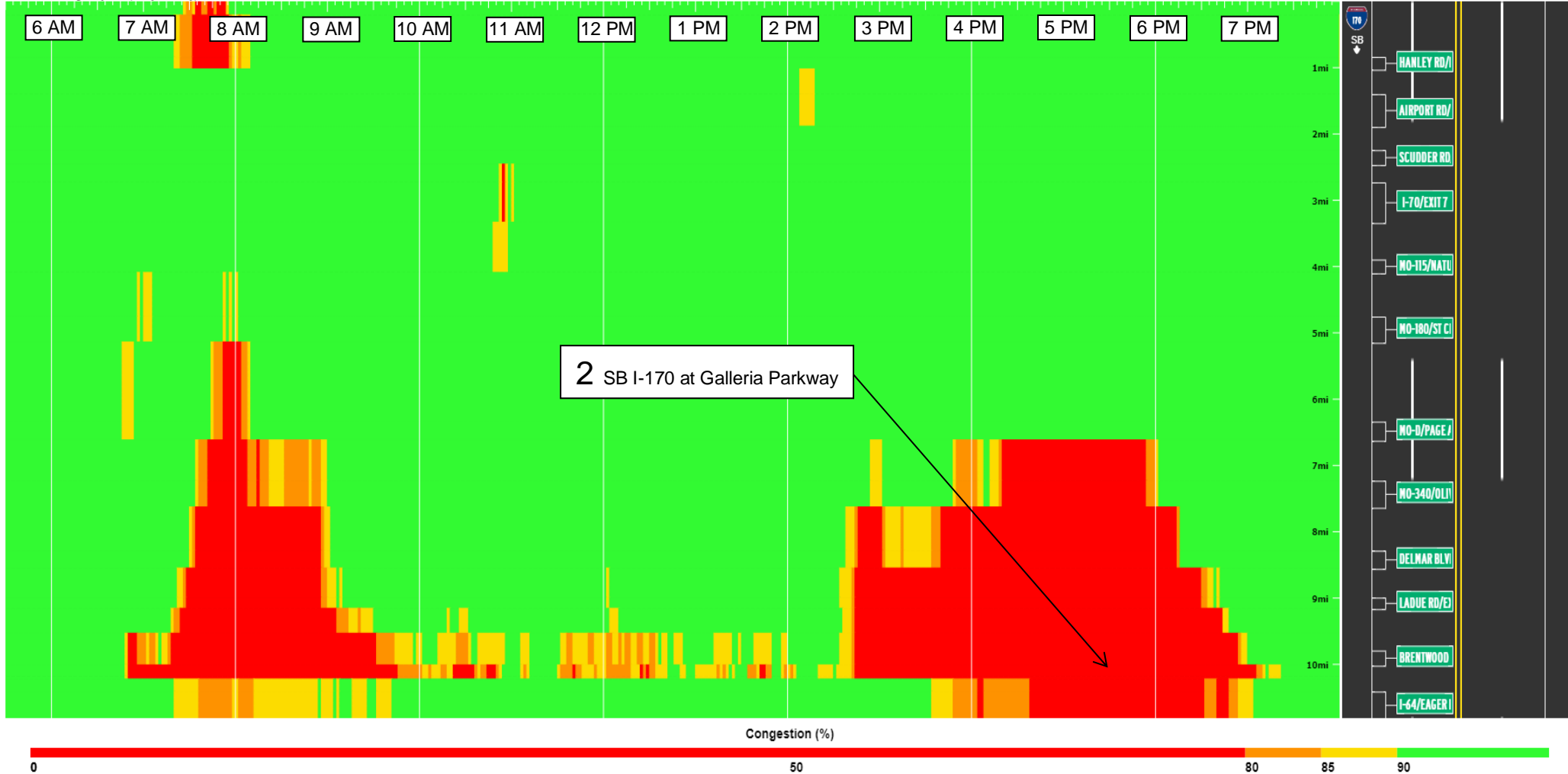


2019 SB I-170

Congestion for I-170 Southbound using HERE data

Averaged by 2 minutes for March 2019 through May 2019 (Every weekday)

March 2019 through May 2019 (Every weekday)





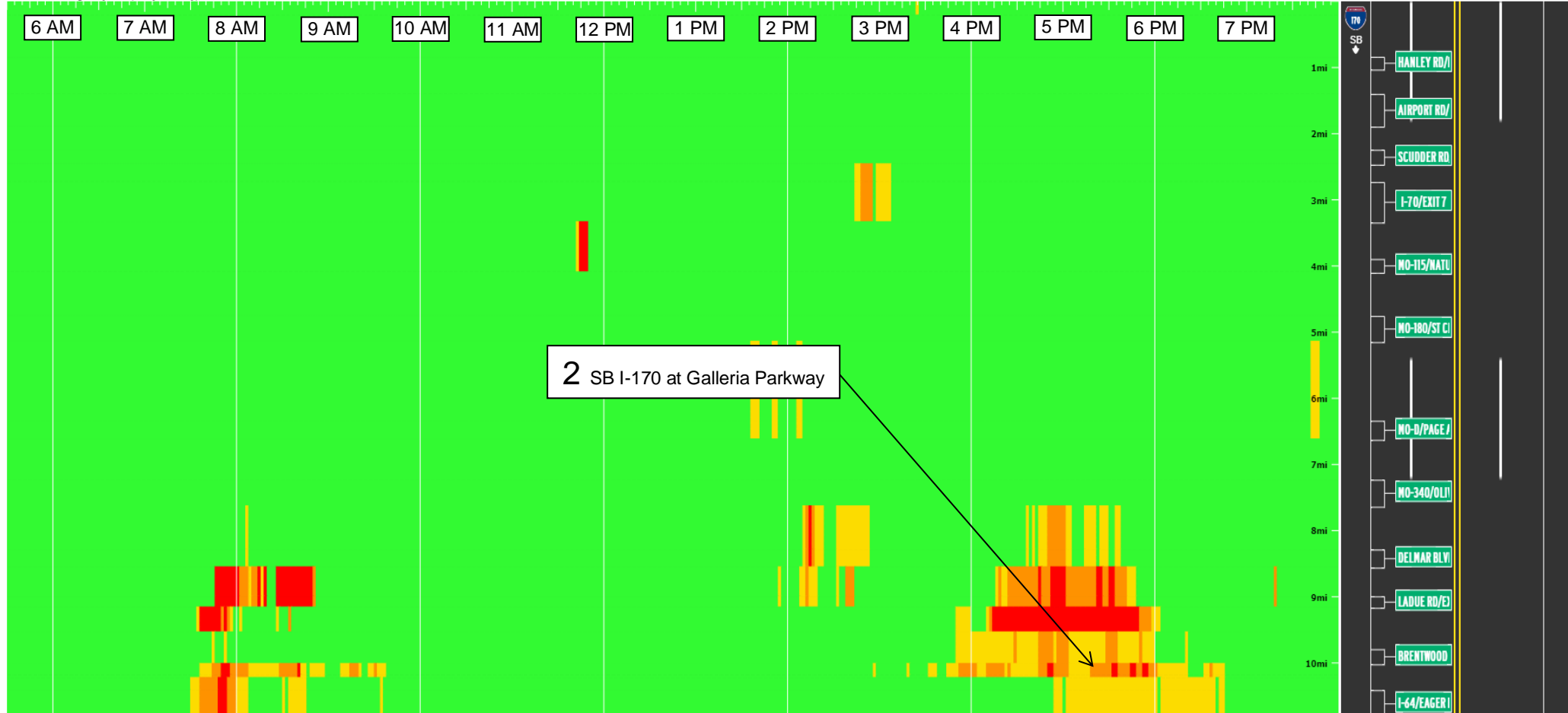
FREEWAY MANAGEMENT



2020 SB I-170

Congestion for I-170 Southbound using HERE data
Averaged by 2 minutes for March 2020 through May 2020 (Every weekday)

March 2020 through May 2020 (Every weekday)



Congestion (%)

0

50

80

85

90

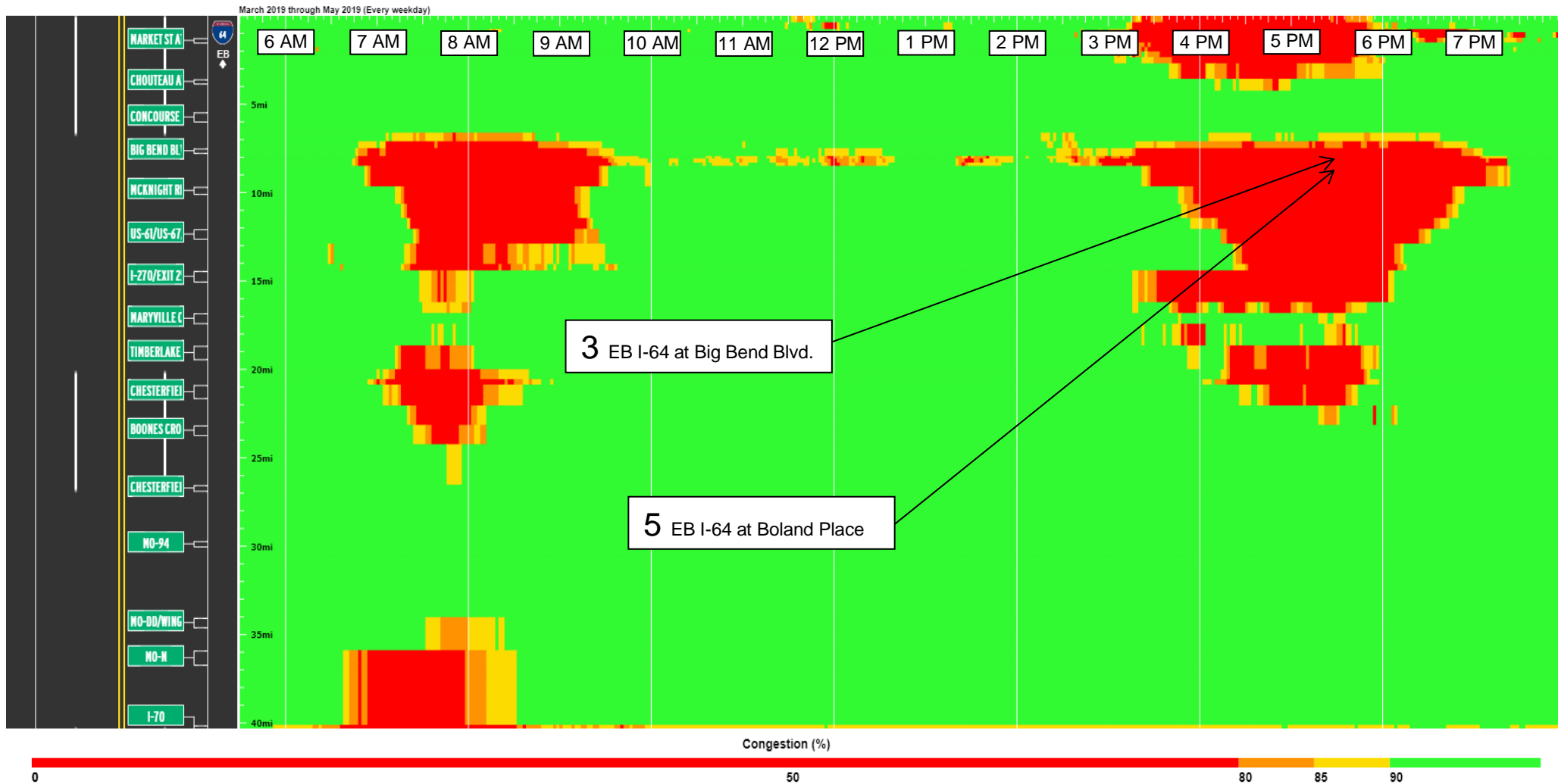
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FREEWAY MANAGEMENT

2019 EB I-64

Congestion for I-64 Eastbound using HERE data Averaged by 2 minutes for March 2019 through May 2019 (Every weekday)

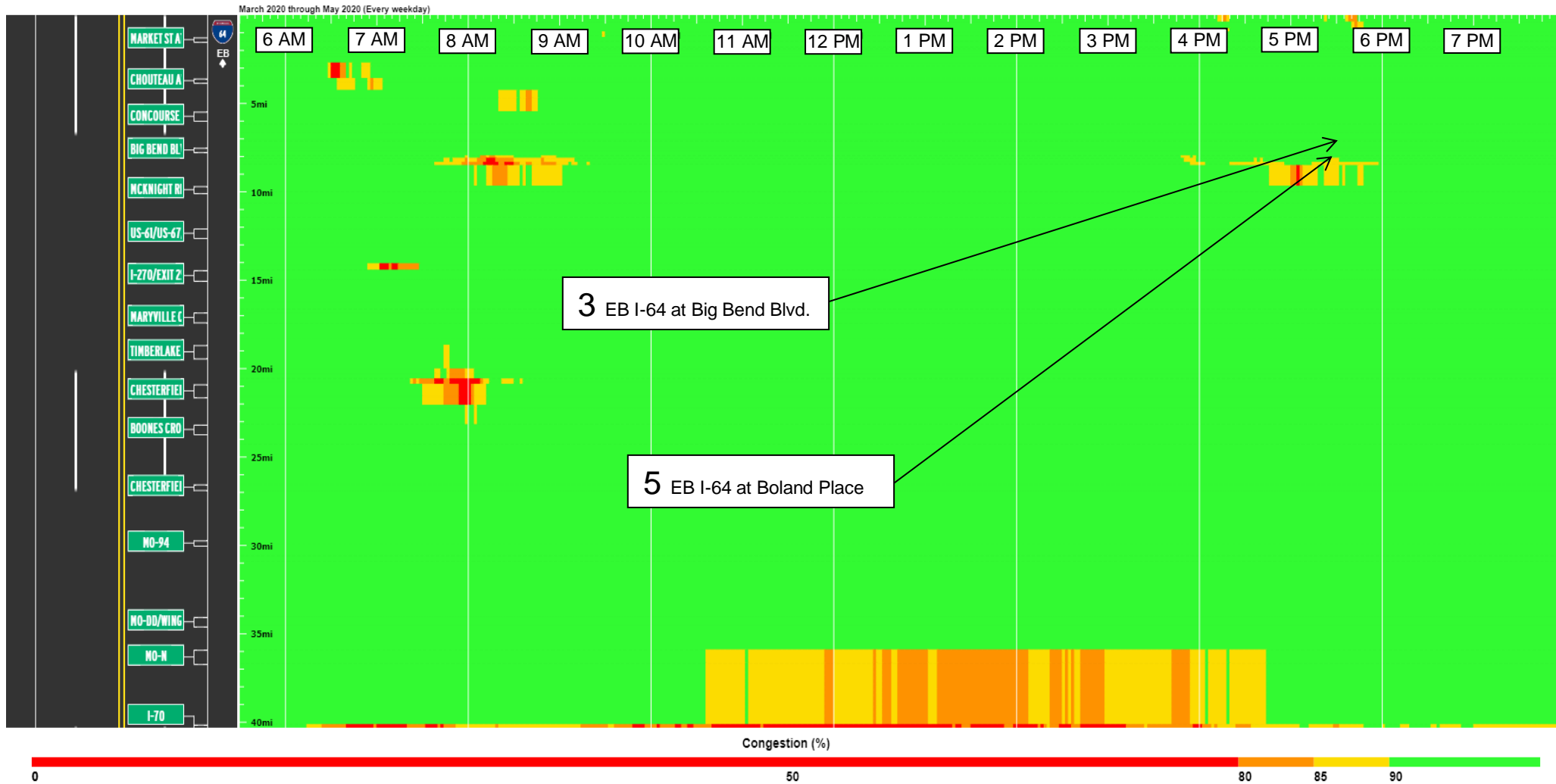




FREEWAY MANAGEMENT

2020 EB I-64

Congestion for I-64 Eastbound using HERE data
Averaged by 2 minutes for March 2020 through May 2020 (Every weekday)





FREEWAY MANAGEMENT

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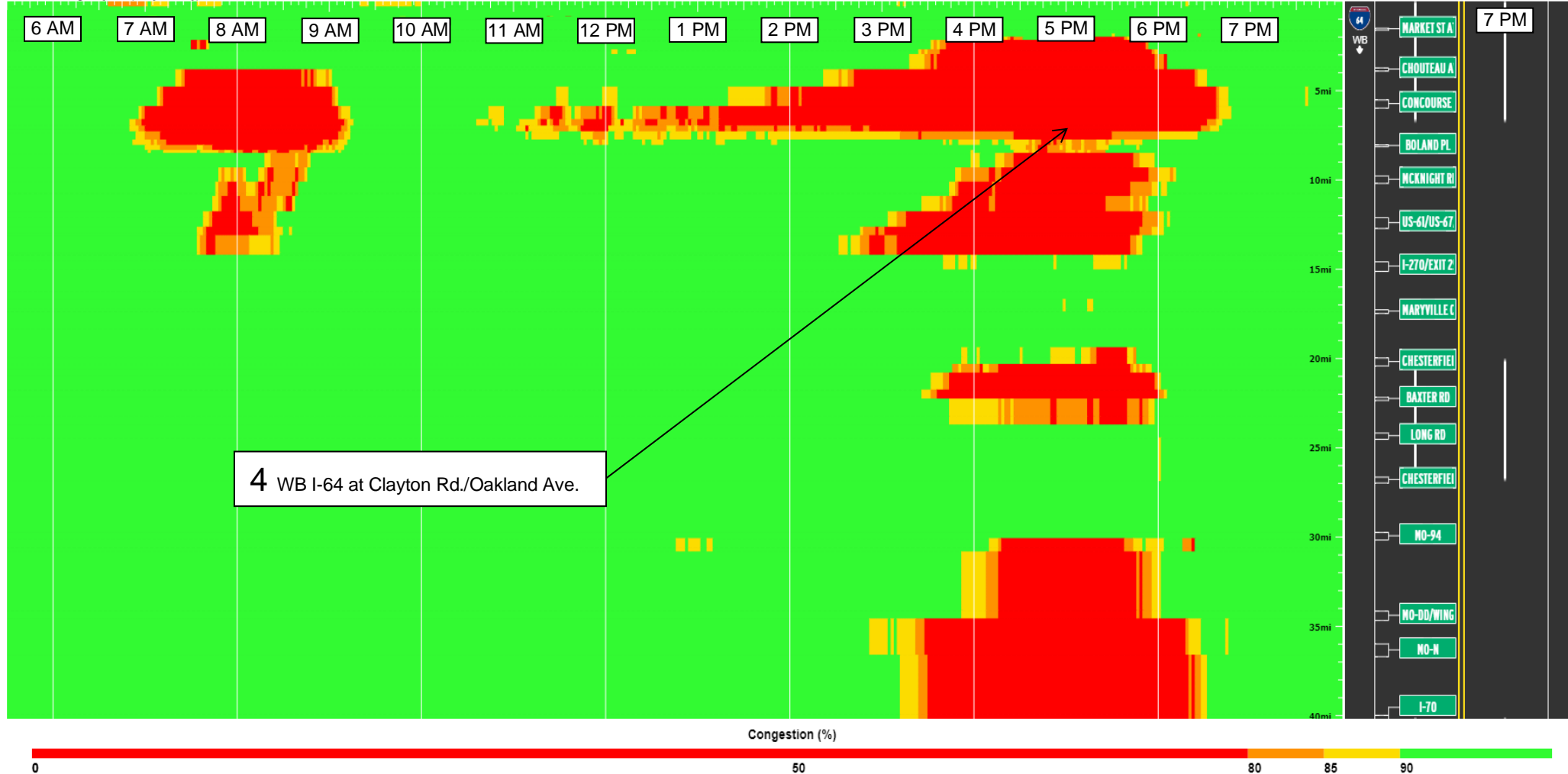


2019 WB I-64

Congestion for I-64 Westbound using HERE data

Averaged by 2 minutes for March 2019 through May 2019 (Every weekday)

March 2019 through May 2019 (Every weekday)





FREEWAY MANAGEMENT

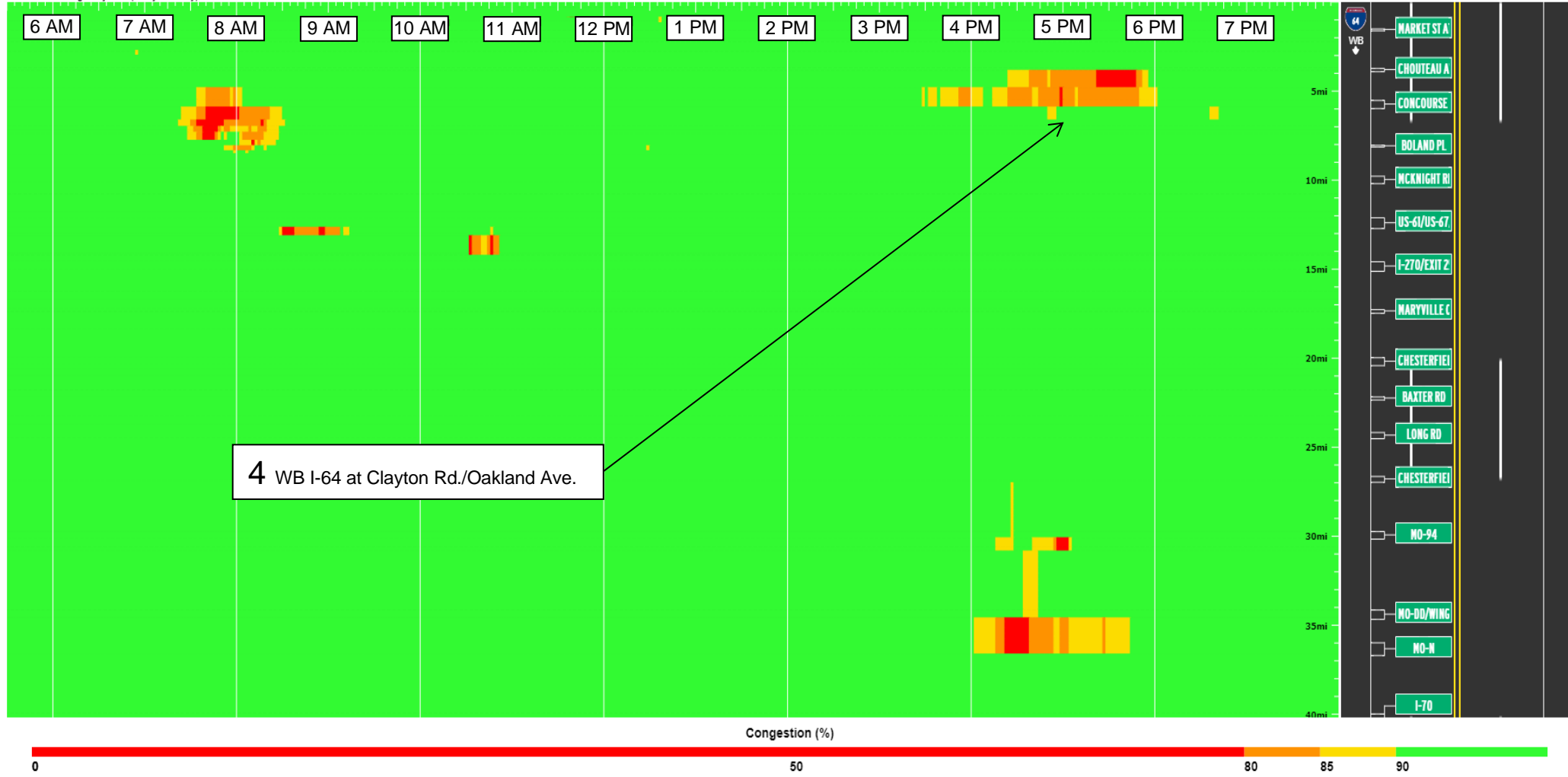
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2020 WB I-64

Congestion for I-64 Westbound using HERE data

Averaged by 2 minutes for March 2020 through May 2020 (Every weekday)

March 2020 through May 2020 (Every weekday)





WORK ZONE MANAGEMENT

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TMC Observed Work Zones

	March 2020	April 2020	May 2019
Level of Travel Time Impact	Number of Work Zones	Number of Work Zones	Number of Work Zones
Major Impact	0	3	0
Moderate Impact	0	4	0
Minor Impact	202	243	220
Total	202	250	220



WORK ZONE MANAGEMENT

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Additional Travel Time Impacts through Work Zones

Major Impact (15 Minutes or Above): # Moderate Impact (10-14 Minutes): # # #

(Daily) Eastbound I-70 at Missouri River/Blanchette Bridge

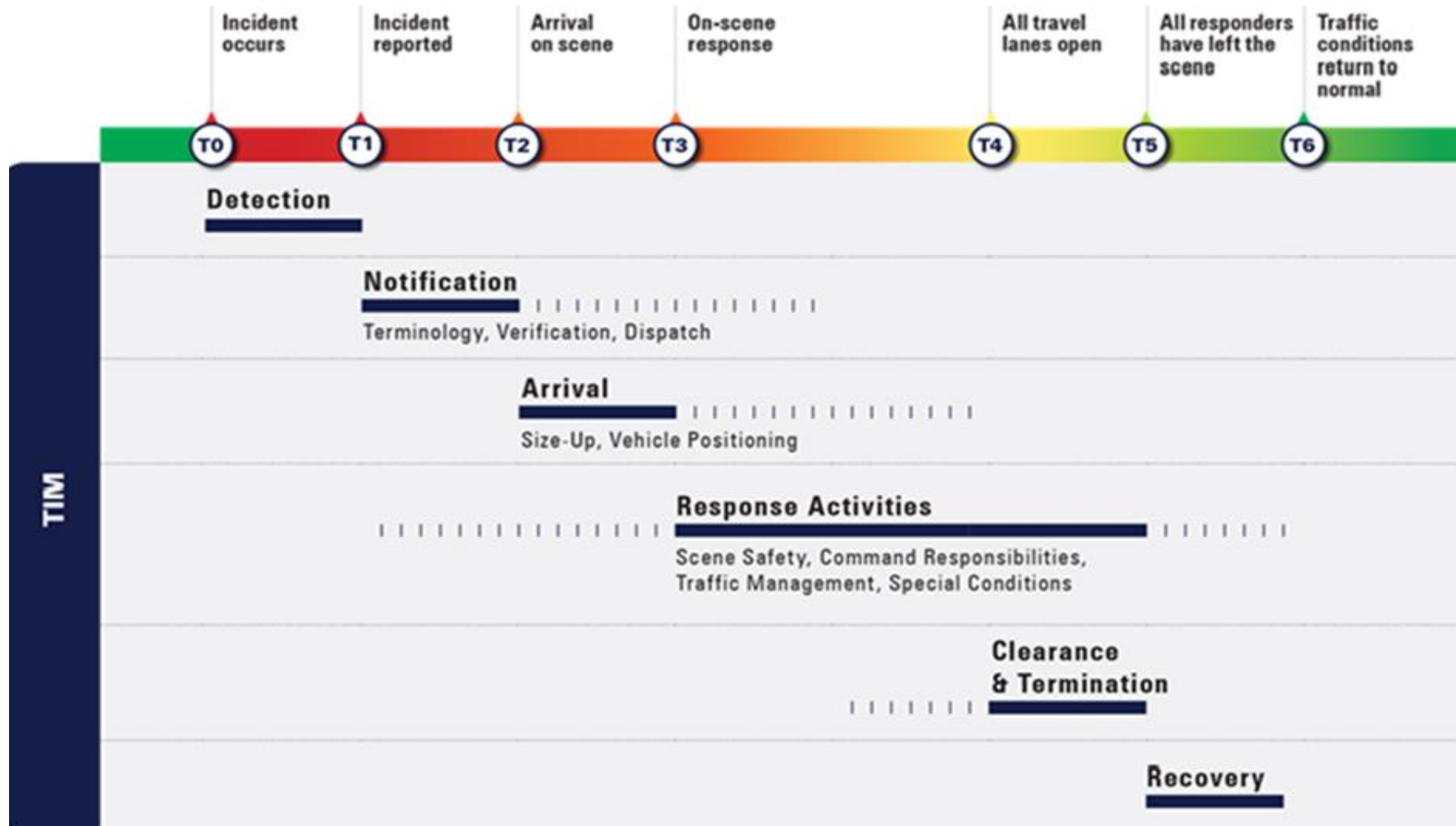
1 2

- Bridge rehabilitation construction
- All mitigation efforts were in use
- RTIS data recorded additional travel times up to 52 minutes during non-peak hours

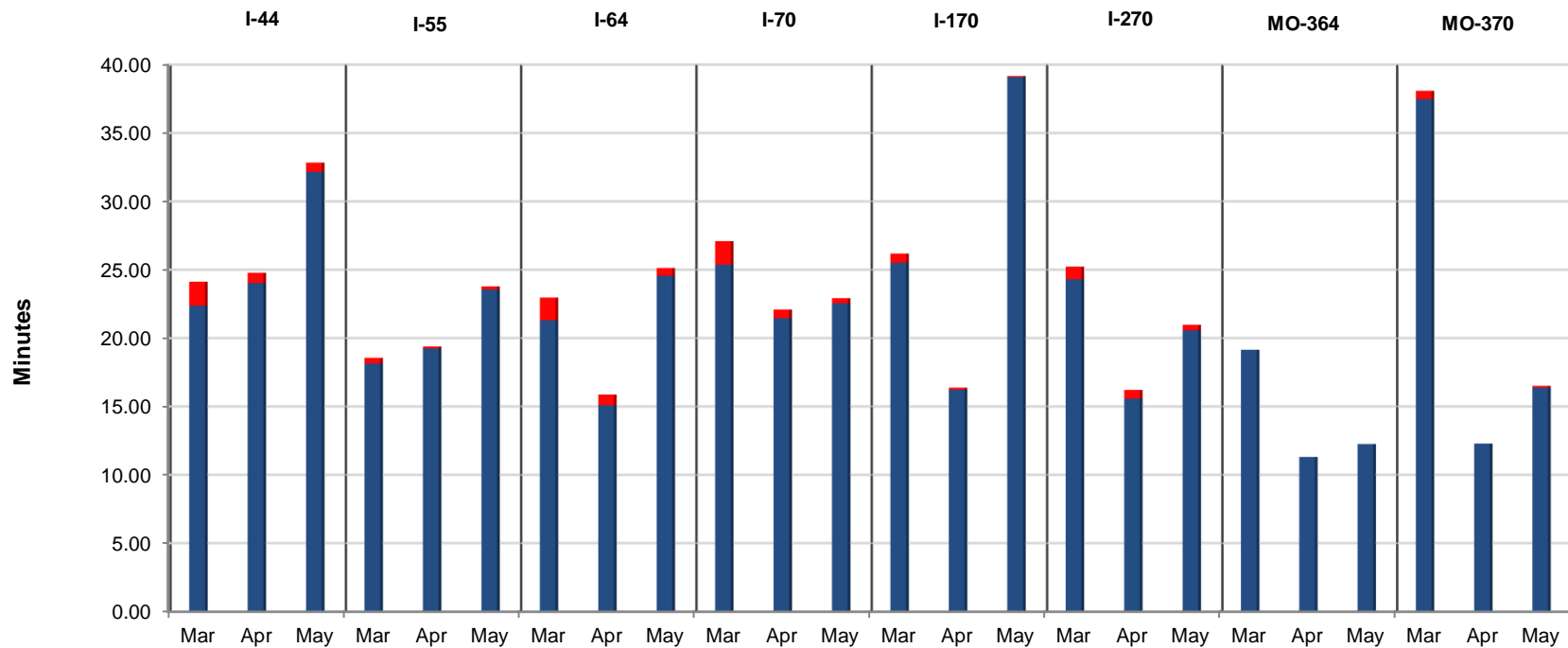
(Daily) Eastbound I-44 at Jefferson Avenue

2 2

- Bridge replacement
- All mitigation efforts were in use
- RTIS data recorded additional travel times of up to 31 minutes during non-peak hours



March / April / May 2020
Incidents Summary



■ Average Time for Backup to Clear = T6 - T4

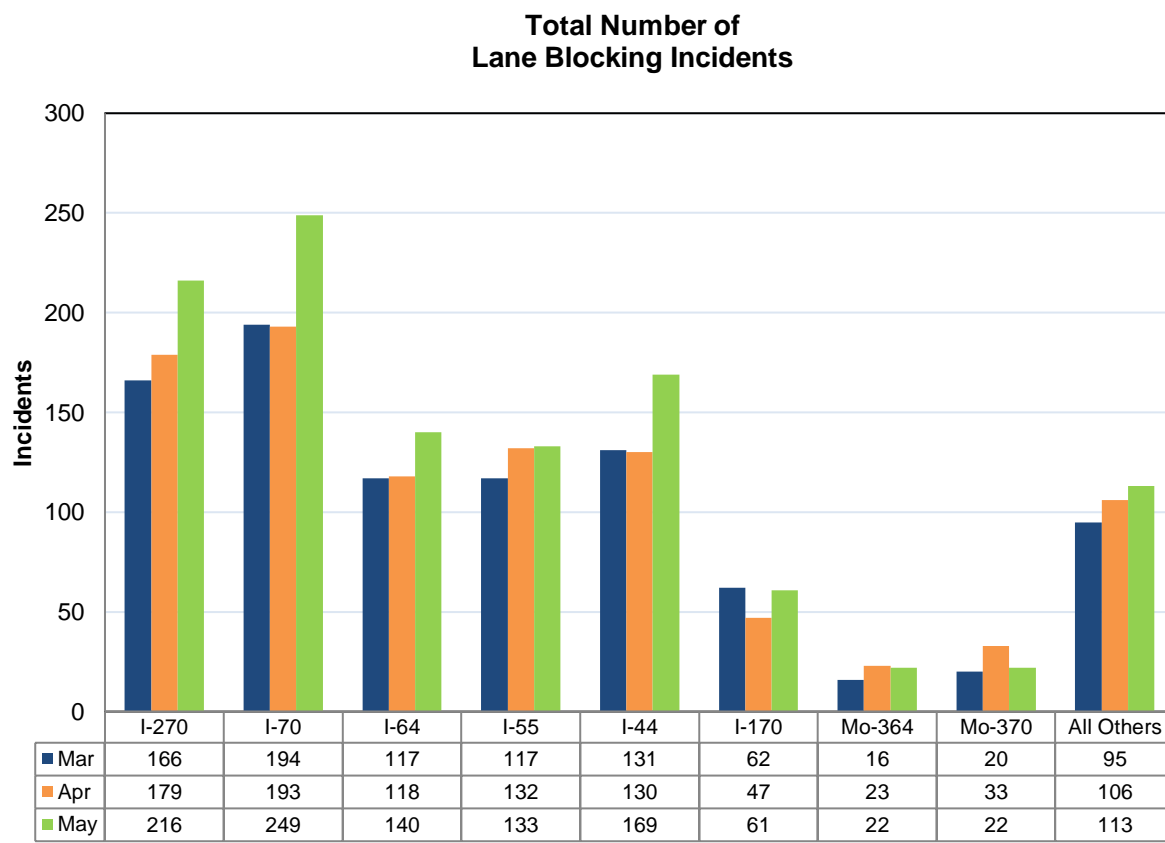
■ Average Time to Clear Incident from Lanes = T4 - T1



INCIDENT MANAGEMENT

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Total Number of Incidents: / March: 918 / April: 961 / May: 1125



Major Impact Incidents

March	April	May
(2)	(1)	(1)

Fatal Incidents

March	April	May
(7)	(4)	(8)

Tractor Trailer Incidents

March	April	May
(66)	(55)	(64)



INCIDENT MANAGEMENT

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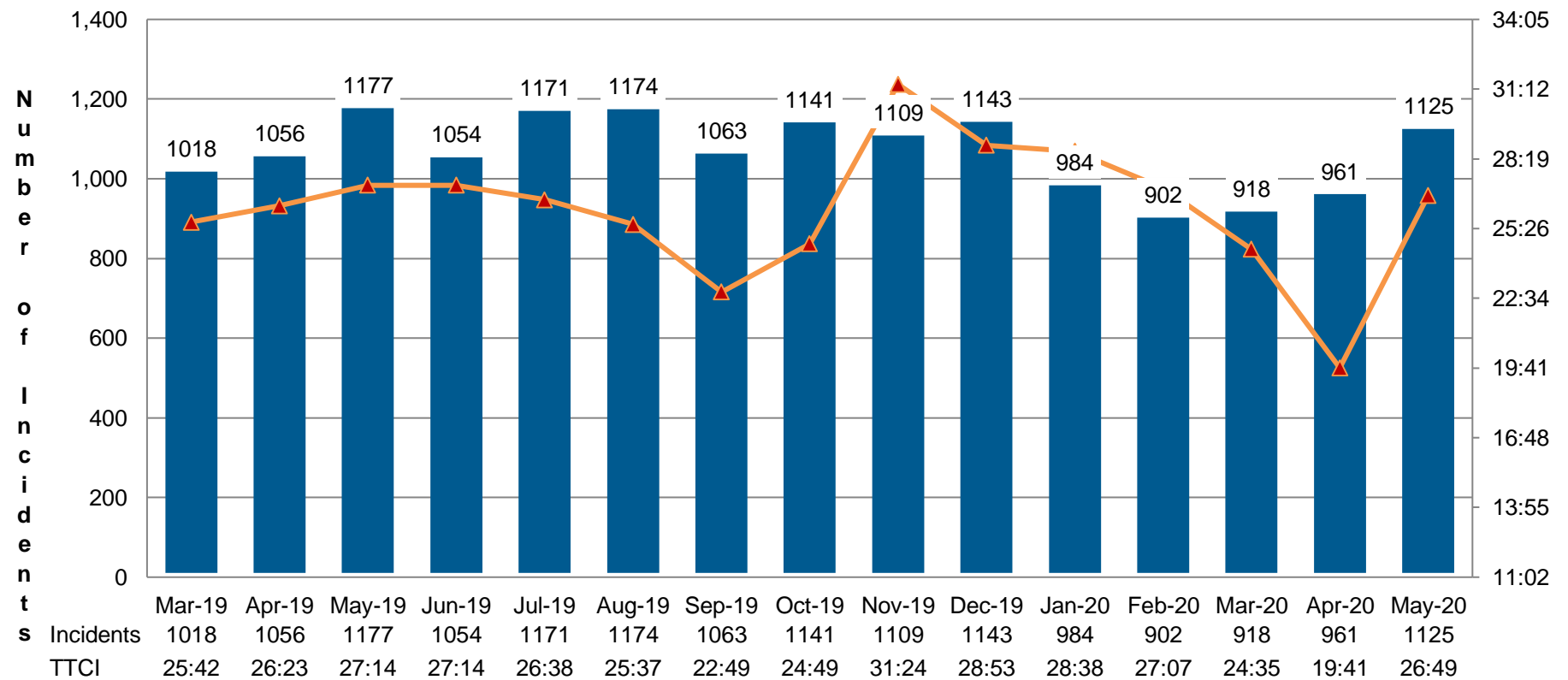
Lane Blocking Incidents by Freeway March, April and May 2020

Interstate	Month	Number of Incidents	Average Time to Clear Incident from Lanes =T4 - T1	Average Time for Backup to Clear = T6 -T4	Freeway Miles	Incidents per Mile
I-44	March	131	22:37	01:45	33	3.97
I-44	April	130	24:03	00:45	33	3.94
I-44	May	169	32:15	00:41	33	5.12
I-55	March	117	18:14	00:25	23	5.09
I-55	April	132	19:24	00:09	23	5.74
I-55	May	133	23:55	00:14	23	5.78
I-64	March	117	21:31	01:39	40	2.93
I-64	April	118	15:09	00:47	40	2.95
I-64	May	140	24:56	00:34	40	3.50
I-70	March	194	25:37	01:43	38	5.11
I-70	April	193	21:46	00:38	38	5.08
I-70	May	249	22:54	00:23	38	6.55
I-170	March	62	25:51	00:40	11	5.64
I-170	April	47	16:23	00:09	11	4.27
I-170	May	61	39:08	00:05	11	5.54
I-270	March	166	24:31	00:55	36	4.61
I-270	April	179	15:58	00:38	36	4.97
I-270	May	216	20:57	00:24	36	6.00
MO-364	March	16	19:15	00:00	11	1.45
MO-364	April	23	11:31	00:00	11	2.09
MO-364	May	22	12:25	00:00	11	2.00
MO-370	March	20	37:48	00:36	13	1.54
MO-370	April	33	12:29	00:00	13	2.53
MO-370	May	22	16:38	00:08	13	1.69
Total	Mar/Apr/May	2690	21:53	00:33	615	4.37



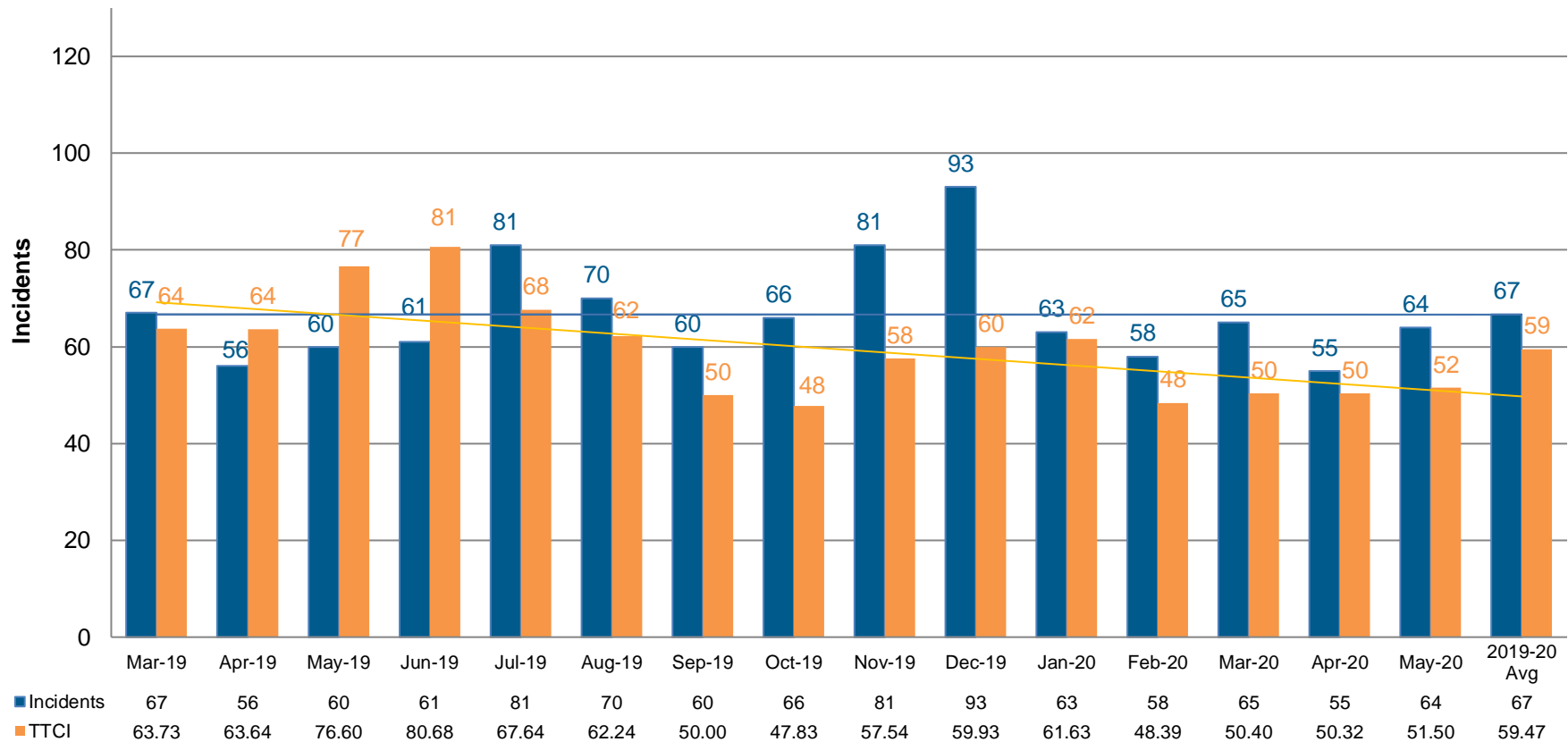
Number of Incidents and Time to Clear Lanes

Time to Clear Incidents





Number of Tractor Trailer Incidents / Time to Clear





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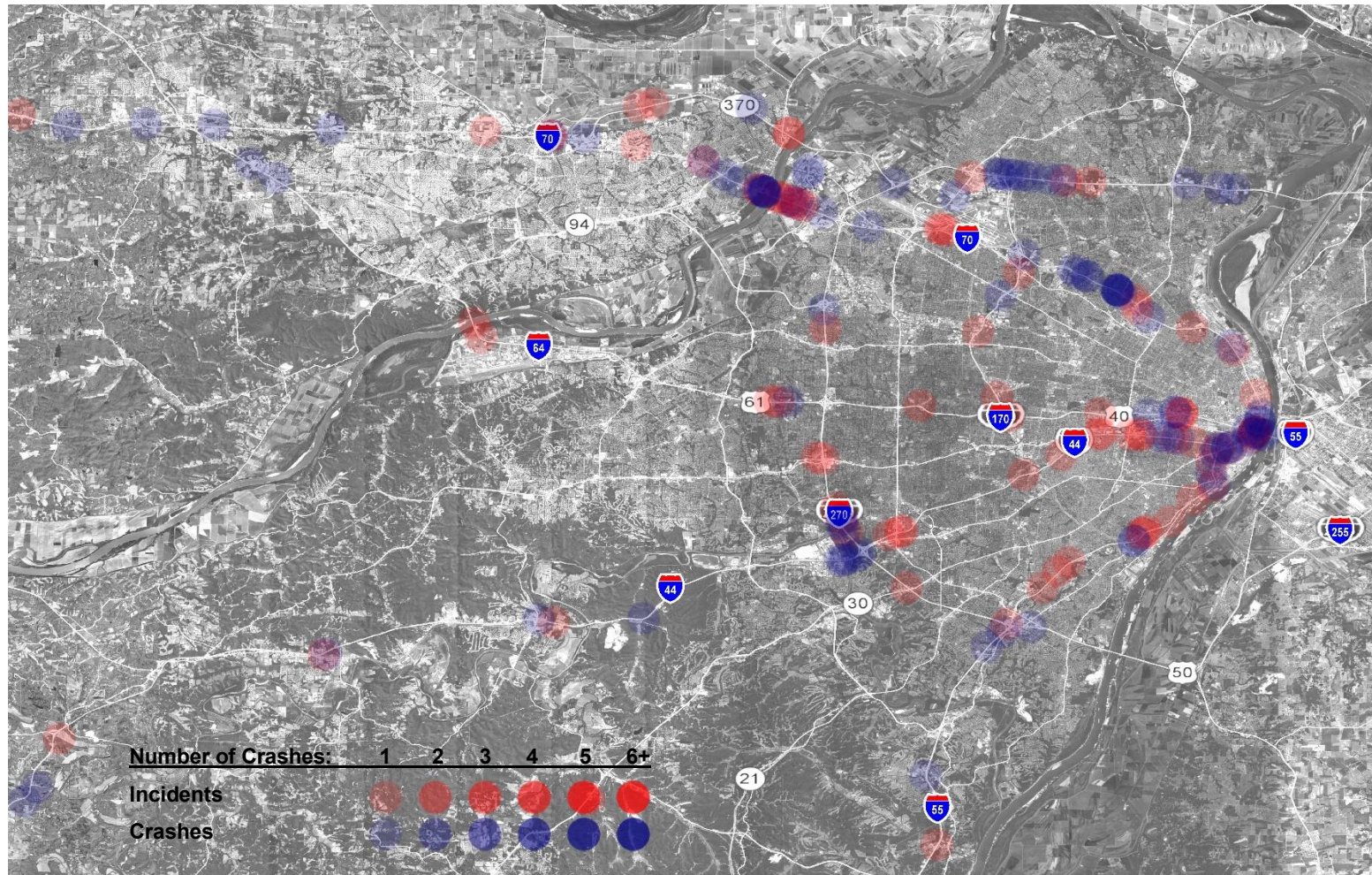


2020 Tractor Trailer Incidents by Route

2020	I-44	I-55	I-64	I-70	I-170	I-255/I-270	Route 364	Route 370	Other	Total
Jan	21	6	9	14	2	11	0	0	0	63
Feb	21	6	4	14	0	9	0	0	4	58
Mar	13	8	4	26	2	7	0	3	3	66
Apr	18	6	8	12	1	6	0	3	1	55
May	17	9	7	17	1	12	0	0	1	64
Jun										
Jul										
Aug										
Sep										
Oct										
Nov										
Dec										
Yearly Total	90	35	32	83	6	45	0	6	9	306

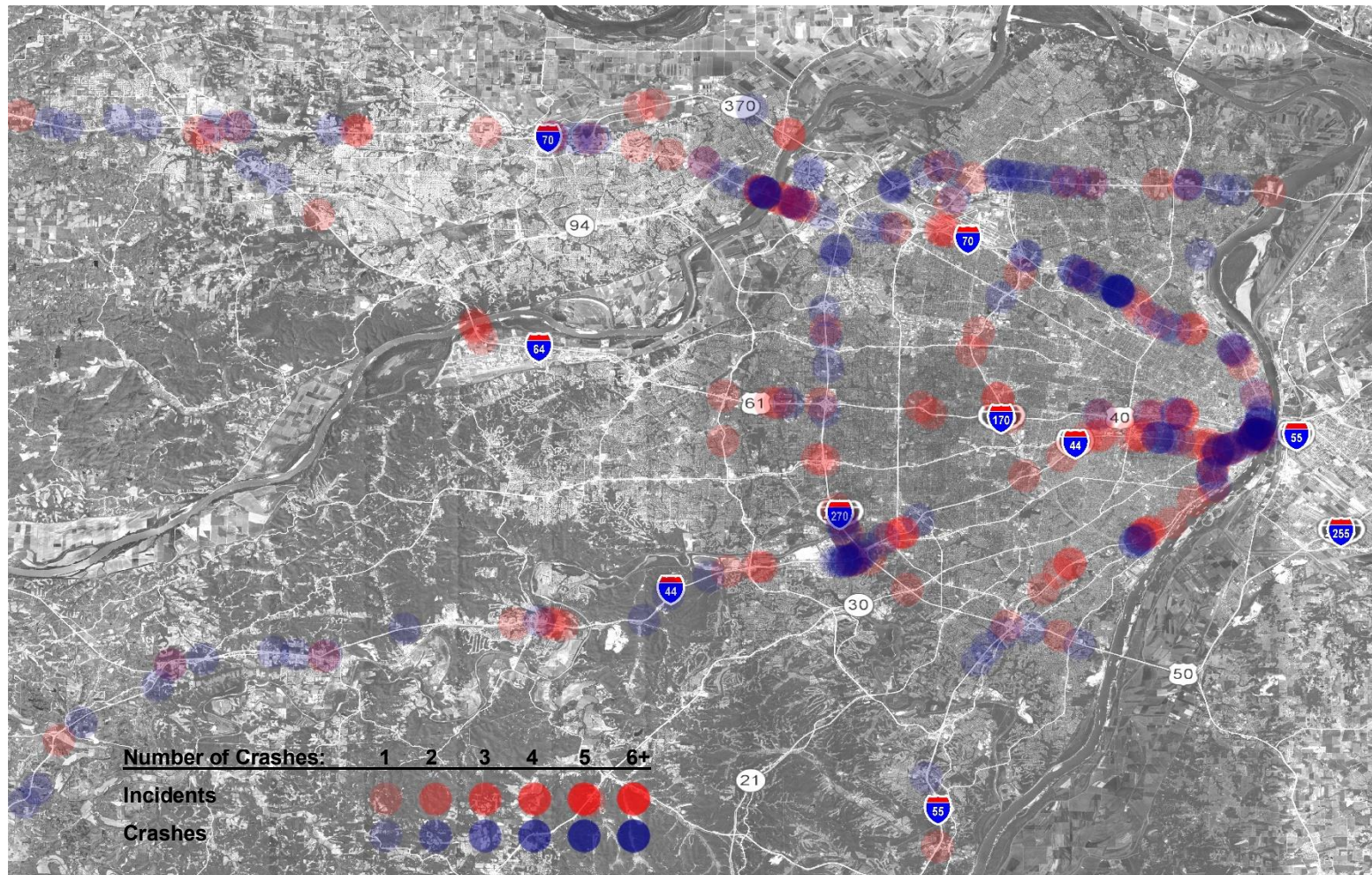


March/April/May 2020 Tractor Trailer Incidents Map





January 2020 – May 2020 Tractor Trailer Incidents Map





INCIDENT MANAGEMENT

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Incidents over Two Hours March / April / May 2020

Incidents in red denote high mobility impact

#	Date & Time	Day of Week	Route	Location	Description	Duration HH/MM
1	3/2/2020 21:54	Monday	US 67 NB	PAST UTZ LN	Stalled tractor trailer with unresolved mechanical issues with towing difficulties	2:36
2	3/6/2020 6:20	Friday	I-64 EB	BEFORE GRAND BLVD	Multi-vehicle crash with bridge damage involving an overturned tractor trailer hauling soy beans	4:43
3	3/7/2020 20:41	Saturday	N RIVERVIEW DR	SCRANTON AVE	Fatal crash with 4 additional injuries	2:36
4	3/8/2020 6:50	Sunday	I-70 WB	AT MISSOURI RIVER	Multi-vehicle crash in a work zone	2:06
5	3/12/2020 12:19	Thursday	I-44 WB	BEFORE BUS 44 PACIFIC	Multi-vehicle crash with tow complications	2:29
6	3/12/2020 13:05	Thursday	MO 370 EB	BEFORE ST LOUIS MILLS	Crash with median wall damage	3:12
7	3/12/2020 13:06	Thursday	MO 370 WB	BEFORE MO 141	Crash with median wall damage	3:18
8	3/14/2020 2:41	Saturday	I-44 WB	TO LEWIS RD	Police requested closure for vehicle recovery from embankment	2:02
9	3/14/2020 5:47	Saturday	I-70 EB	BEFORE ST CHARLES ROCK RD	Overturned camper trailer. Extended duration due to debris clean up	3:41
10	3/14/2020 16:09	Saturday	I-170 NB	AT I-70	Fatal crash with accident reconstruction investigation and roadway lighting cabinet damage	3:37
11	3/14/2020 16:28	Saturday	I-70 WB	TO I-170 NB	Ramp closed due to fatal crash with accident reconstruction	3:14
12	3/20/2020 6:03	Friday	I-270 SB	ON RAMP FROM PAGE AVE EB	Multi-vehicle crash with fatality	3:38
13	3/20/2020 6:05	Friday	I-270 SB	AT PAGE AVE	Multi-vehicle crash with fatality	3:38
14	3/20/2020 7:07	Friday	I-270 SB	ON RAMP FROM PAGE AVE WB	Ramp closed for investigation of multi-vehicle crash with fatality	2:33
15	3/21/2020 1:47	Saturday	I-70 EB	AT MISSOURI RIVER	Crash involving a tractor trailer with extended duration due to heavy tow and debris on road	2:50
16	3/22/2020 11:49	Sunday	I-70 WB	PAST BERMUDA RD	Tractor trailer crash with injuries and guardrail damage. Fuel spill with cleanup of 55+ gallons required	4:21



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#	Date & Time	Day of Week	Route	Location	Description	Duration HH/MM
17	3/24/2020 7:27	Tuesday	I-64 WB	PAST ROUTE N	Fatal crash involving a pickup truck and tractor trailer. Crash reconstruction and investigation.	3:37
18	3/25/2020 9:16	Wednesday	I-270 SB	PAST BIG BEND BLVD	Overtaken tractor trailer carrying grass seed. Three heavy tows required to upright. Cleanup required for 100+ gallon fuel spill.	2:35
19	4/1/2020 7:21	Wednesday	I-55 SB	BEFORE GERMANIA AVE	Failing bridge joint. Extended duration to allow for repair.	2:13
20	4/1/2020 14:06	Wednesday	US 67 NB	PAST SUMMIT AVE	Tractor trailer struck railroad bridge	2:18
21	4/6/2020 17:38	Monday	I-70 WB	AT I-64	Vehicle crash with three fatalities	2:58
22	4/10/2020 10:58	Friday	MO 141 NB	PAST FOREST AVE	Overtaken dump truck in embankment	3:42
23	4/10/2020 11:58	Friday	E 180 MO	N LINDBERGH BLVD CST	Vehicle struck traffic signal	2:29
24	4/12/2020 22:57	Sunday	MO 370 EB	TO MISSOURI BOTTOM RD	Weather related vehicle crash	2:23
25	4/22/2020 13:14	Wednesday	US 67 SB	BEFORE MISSOURI RIVER	Car vs SUV vehicle crash with extended duration due to spill cleanup.	2:03
26	4/23/2020 4:34	Thursday	I-44 EB	BEFORE I-270	Overtaken tractor trailer with hauling 79,000 lbs of produce	4:58
27	4/25/2020 9:06	Saturday	I-44 WB	PAST ANTIRE RD	Crash involving tractor trailer with recovery from nearby bluff	2:51
28	4/25/2020 12:25	Saturday	I-44 EB	BEFORE US 50	Tractor trailer crash with fuel spill and cleanup	2:10
29	4/26/2020 0:53	Sunday	I-270 EB	TO RIVERVIEW DR	ER closed exit ramp due to crash on Riverview Drive	2:24
30	4/26/2020 1:00	Sunday	S RIVERVIEW DR	PAST I-270	SUV crash within work zone limits resulting in a fatality	2:18
31	4/28/2020 18:35	Tuesday	I-44 EB	AT I-270	Tractor trailer spilled load over all lanes of the I-44 mainline	2:44
32	4/29/2020 1:15	Wednesday	I-55 SB	AT MO 141	Multi-vehicle crash with vehicles into guardrail	2:24
33	4/29/2020 10:27	Wednesday	I-44 WB	BEFORE ROUTE WW/AB MO 30 ST CLAIR	Fatal crash involving several tractor trailers and an oil spill	3:37



INCIDENT MANAGEMENT

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#	Date & Time	Day of Week	Route	Location	Description	Duration HH/MM
34	4/29/2020 19:04	Wednesday	I-55 SB	AT ARSENAL ST	Multi-vehicle crash with injuries involving a tractor trailer	2:01
35	4/30/2020 9:20	Thursday	I-55 NB	PAST BUTLER HILL RD	Concrete truck struck an abandoned vehicle on the right shoulder. Concrete truck was overturned and the driver was entrapped	2:45
36	5/1/2020 0:28	Friday	I-170 NB	BEFORE ST CHARLES ROCK RD	Pedestrian struck by vehicle resulting in a fatality	2:19
37	5/1/2020 0:34	Friday	I-170 NB	AT PAGE AVE	Police incident with traffic diversion	2:13
38	5/1/2020 0:40	Friday	I-170 NB	ON RAMP FROM PAGE AVE	Police incident with traffic diversion	2:06
39	5/3/2020 23:29	Sunday	N HALLS FERRY RD CST	LEAMONT DR CST	Fatal two-vehicle crash. MoDOT ER provided assistance to Highway Patrol	2:01
40	5/4/2020 7:42	Monday	W 44 LP	S FOX CREEK LN CST	Two-vehicle crash with car fire resulting in one fatality	4:35
41	5/4/2020 18:36	Monday	I-64 EB	TO PROSPECT RD	Structure fire. MoDOT ER provided assistance to close ramp	2:46
42	5/5/2020 2:19	Tuesday	NEW HALLS FERRY RD CRD	PERSHALL RD CST	Fatal crash. Vehicle struck pole and caught fire with driver trapped inside	2:40
43	5/5/2020 2:22	Tuesday	I-270 EB	TO NEW HALLS FERRY RD	Police closed ramp due to fatal crash. Vehicle struck pole and caught fire with driver trapped inside	2:36
44	5/5/2020 2:27	Tuesday	S NEW HALLS FERRY RD CRD	PERSHALL RD CST	Police closed lanes due to fatal crash. Vehicle struck pole and caught fire with driver trapped inside	2:32
45	5/5/2020 20:30	Tuesday	I-44 WB	AT ELM AVE	Stranded driver along I-44 opened fire on two Webster Groves police officers, police officers returned fire, and driver resulted in a fatal. Scene was closed for investigation.	5:07
46	5/5/2020 22:07	Tuesday	I-44 WB	ON RAMP FROM MURDOCH AVE		4:54
47	5/5/2020 22:02	Tuesday	I-44 WB	ON RAMP FROM JAMIESON AVE		3:45
48	5/5/2020 22:01	Tuesday	I-44 WB	AT HAMPTON AVE		3:36
49	5/5/2020 22:18	Tuesday	I-44 EB	AT ELM AVE		2:46



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#	Date & Time	Day of Week	Route	Location	Description	Duration HH/MM
50	5/5/2020 22:48	Tuesday	I-55 NB	PAST POTOMAC ST	Crash with passenger vehicle trapped under tractor trailer.	2:24
51	5/6/2020 21:18	Wednesday	S 61 US	NORTH POINTE PRAIRIE	Pedestrian struck by pickup truck resulting in a fatality	2:24
52	5/7/2020 9:33	Thursday	I-55 SB	PAST I-255	Overturned tractor trailer with large debris in roadway	5:08
53	5/7/2020 9:35	Thursday	I-270 SB	TO I-55 SB		5:12
54	5/10/2020 0:34	Sunday	E B RT	ROSALIE AVE CST	Single vehicle struck by train resulting in a fatality	4:50
55	5/12/2020 23:31	Tuesday	I-64 EB	PAST LINDBERGH BLVD	Pedestrian struck by vehicle. Extended duration due to investigation and reconstruction.	2:48
56	5/12/2020 23:38	Tuesday	I-64 WB	BEFORE LINDBERGH BLVD		2:43
57	5/13/2020 14:11	Wednesday	I-44 WB	BEFORE ROUTE JJ/W	Incident with lane blockage confirmed by Highway Patrol	2:01
58	5/14/2020 2:15	Thursday	I-70 WB	PAST JENNINGS STA RD	Multi-vehicle crash involving three tractor trailers and a passenger vehicle	2:01
59	5/15/2020 1:47	Friday	I-55 NB	PAST US 61	Crash involving an overturned EMS carrying a transport from Stoddard County	2:13
60	5/15/2020 7:47	Friday	I-70 WB	BEFORE ROUTE T/W	Two-vehicle crash involving an overturned fuel tanker.	1:56
61	5/15/2020 17:41	Friday	I-70 WB	BEFORE CYPRESS RD	Tractor trailer transporting cattle had to be off loaded due to a brake fire. Extended duration due to waiting on heavy tow.	2:56
62	5/17/2020 17:38	Sunday	I-170 SB	PAST ST CHARLES ROCK RD	Tractor trailer crash into wooded area with fuel spill	4:32
63	5/19/2020 21:44	Tuesday	N 367 MO	NORTHUMBERLAND	Fatal two-vehicle crash	3:24
64	5/19/2020 21:48	Tuesday	S 367 MO	CHAMBERS RD CST	Police investigation of fatal two-vehicle crash	3:21
65	5/20/2020 15:55	Wednesday	N HALLS FERRY RD CST		American Water utility incident	2:44
66	5/21/2020 5:01	Thursday	S VANDEVENTER AVE CST	E I-44 WB RP	Dump truck struck and knocked down a traffic signal	3:04



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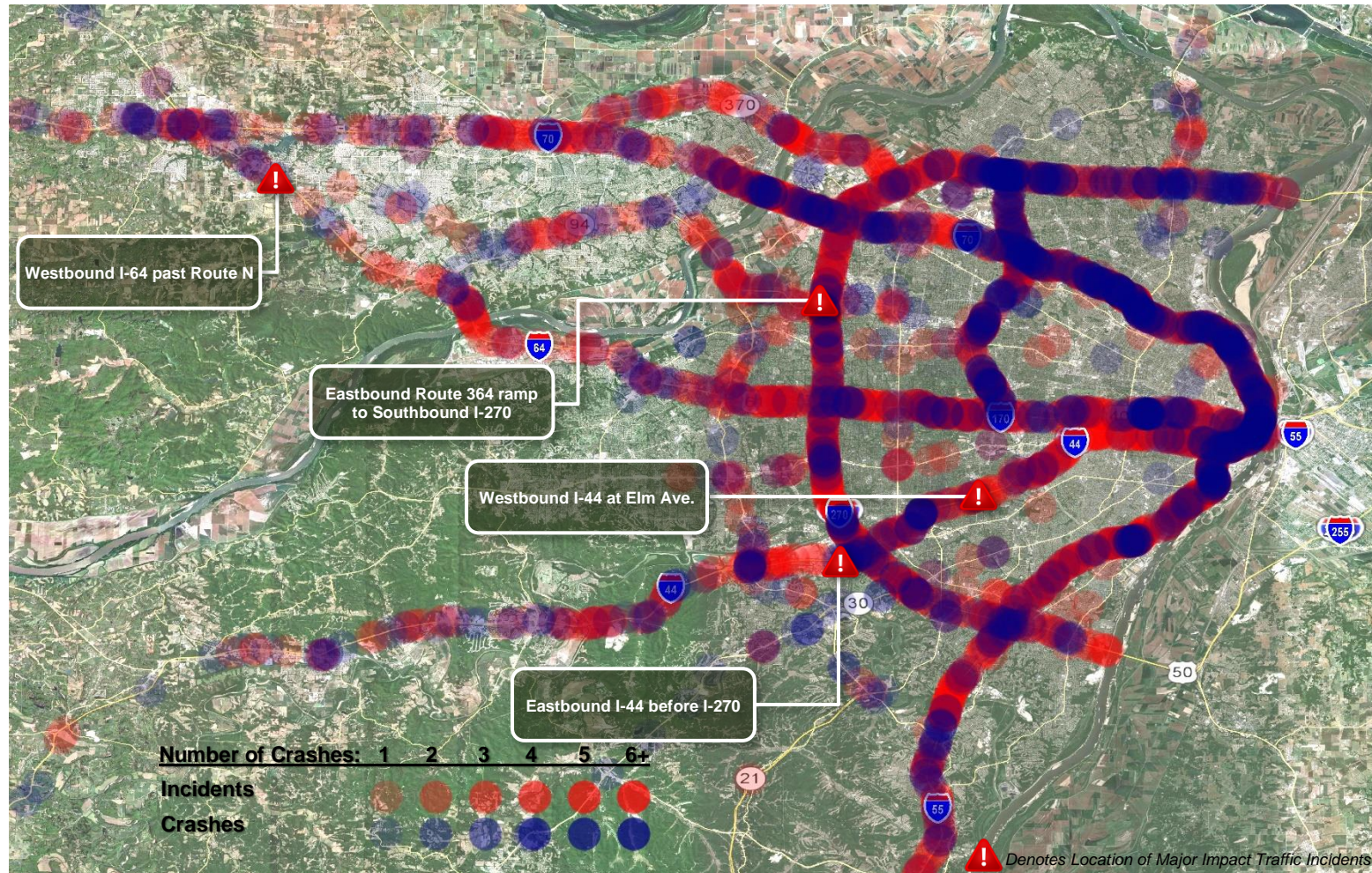
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#	Date & Time	Day of Week	Route	Location	Description	Duration HH/MM
67	5/22/2020 4:50	Friday	I-44 WB	PAST I-270	Overtaken tractor trailer with spilled load	2:36
68	5/22/2020 23:04	Friday	N TESSON FERRY RD CRD	KENNERLY RD CST	Multi-vehicle crash with pedestrian struck and reconstruction/investigation	2:22
69	5/28/2020 17:29	Thursday	I-44 WB	PAST BUS 44 SIX FLAGS RD	Pickup truck hauling an RV caught fire	3:14
70	5/29/2020 23:28	Friday	I-44 EB	BEFORE MADISON	Civil unrest	3:09
71	5/29/2020 23:41	Friday	I-44 EB	AT GRAND BLVD	Civil unrest	2:58
72	5/29/2020 23:44	Friday	I-44 WB	PAST BROADWAY	Civil unrest	2:46
73	5/29/2020 23:52	Friday	I-70 EB	BEFORE ST LOUIS AVE	Civil unrest	2:58
74	5/29/2020 23:54	Friday	I-70 EB EXPRESS LANES	AT UNION BLVD	Civil unrest	2:54
75	5/29/2020 23:58	Friday	I-55 NB	AT POTOMAC ST	Civil unrest	2:38
76	5/30/2020 0:12	Saturday	I-64 WB	TO I-44 EB	Civil unrest	2:23
77	5/30/2020 4:44	Saturday	I-270 SB	PAST BIG BEND BLVD	Crash involving stolen vehicle colliding with tractor trailer	3:43
78	5/30/2020 18:42	Saturday	I-44 EB	BEFORE SHREWSBURY AVE	Stalled tractor trailer over white line. Extended duration due to mechanical issues and tow	3:06
79	5/31/2020 22:17	Sunday	I-170 SB	AT LADUE RD	Civil unrest	2:56
80	5/31/2020 22:28	Sunday	I-170 SB	ON RAMP FROM LADUE	Civil unrest	2:18
81	5/31/2020 22:31	Sunday	I-64 WB	TO I-170 NB	Civil unrest	2:50
82	5/31/2020 22:40	Sunday	I-64 WB	ON RAMP FROM HANLEY RD	Civil unrest	2:08
83	5/31/2020 23:10	Sunday	I-64 EB	TO HANLEY RD	Civil unrest	2:19



March / April / May 2020 Incidents with Mobility Impact Map






Major Impact Traffic Incidents and Mitigation

3/20/2020 (Friday)

- **Time:** 6:02 am – 9:40 am ***Fatality***
- **Location:** St. Louis County Ramp from MO 364 to Southbound I-270 / Southbound I-270 past MO 364
- **Event Type:** Multi-vehicle crash with fatality and injuries
- **Estimated Initial Impact:** Rush Hour: 4 of 4 travel lanes affected equals (=) 100%
- **Incident Details:** Fatality crash with injuries. Multiple vehicles collided in the right lane and came to rest at the bottom of the ramp from Eastbound MO 364 to Southbound I-270. Due to the location of the incident, the ramp from Rte. D to Southbound I-270 and the mainline of Southbound I-270 had to be closed.
- **Action Taken:** TMC Operators discovered the incident at 6:02 am. At that time St. Louis County PD was just arriving on scene and getting into position. DMS boards were not activated at that time due to a TransSuite server glitch, in which the TMC could not communicate with the DMS boards' server. The main incident occurred at the bottom of the ramp from Eastbound MO 364 to Southbound I-270, but mainline lanes were taken when EMS, Fire Department, and Maryland Heights PD arrived at 06:03 am. All Emergency Response responded to the mainline lanes. Initially the left shoulder of the MO 364 ramp to Southbound I-270 remained open for traffic to access Southbound I-270, but was finally closed by Police at 6:25 am. TMC staff advised all ER still enroute to set up a diversion for traffic to take MO 364 due to the queue backing up to Dorsett Road. At 6:45 am ER arrived and began the set up for diverting traffic at MO 364 / Route D. The diversion was completed and in place at 7:04 am. At this time TMC staff noticed the ramp from Route D to Southbound I-270 was still open to traffic. TMC staff advised PD to close the ramp and at 7:11 am the ramp was closed. At 7:30am the incident was confirmed to involve a fatality and the TMC began their notifications check list. Incident Commander, Communications, Motor Carriers and EOC were notified. While reconstruction worked the scene, ER stayed at the back of the incident directing traffic on to MO 364. While directing traffic, ER was struck by a vehicle. They did not sustain injury and the vehicle left the scene abruptly. Area IM was sent on the hour every hour for the duration of this incident. The extended incident event time was due to incident investigation and reconstruction. Traffic queued 1 mile on the MO 364 eastbound ramp and 3.3 miles along Southbound I-270 mainline.
- **Event Duration:** 3 hours 38 minutes

	Southbound I-270 past MO 364	Left Shoulder	Lane 1	Lane 2	Lane 3	Lane 4	Right Shoulder
		Closed Hours/Minutes	3:38	3:38	3:38	3:38	3:38



Major Impact Traffic Incidents and Mitigation




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3/24/2020 (Tuesday)

- **Time:** 7:27 am – 11:04 am ***Fatality***
- **Location:** St. Charles County Westbound I-64 past Route N
- **Event Type:** Two-Vehicle Fatal Crash
- **Estimated Initial Impact:** Rush Hour: 2 of 2 travel lanes affected equals (=) 100%, but traffic was able to drive on the left shoulder
- **Incident Details:** ER was traveling through the area near Route N on I-64 when they drove upon the scene of a 2-vehicle crash. ER made Dispatch aware as TMC staff overheard the accident being dispatched by highway patrol over the scanner.
- **Action Taken:** The incident was entered into ATMS and boards were activated to warn the traffic approaching that there was an incident ahead with one lane of traffic passing through. EMS, Fire and O'Fallon PD arrived on scene shortly after ER and positioned their vehicles in the lanes ahead of ER to protect the scene of the incident. Highway Patrol took command of the incident when they arrived on scene and confirmed the fatality. The crash team and medical examiner arrived on scene for incident investigation and reconstruction. Once both vehicles were removed by tow all traffic congestion was cleared. No queue was ever built up due to this incident.
- **Event Duration:** 3 hours 37 minutes

	Westbound I-64 past Route N	Left Shoulder	Lane 1	Lane 2	Right Shoulder
			Closed Hours/Minutes	0:00	3:37





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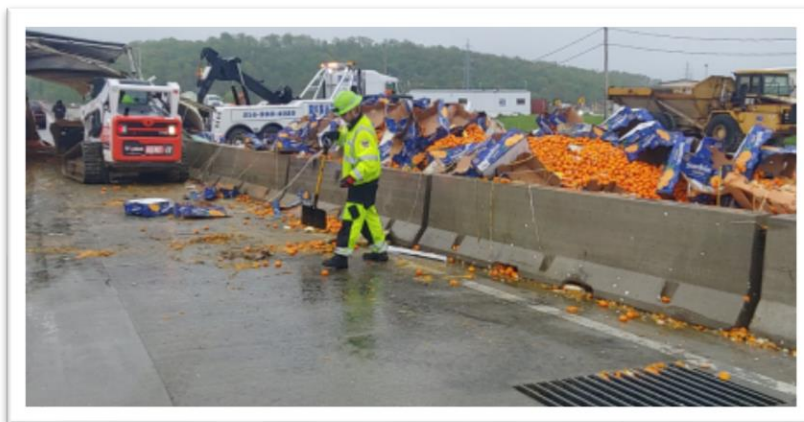


Major Impact Traffic Incidents and Mitigation

4/23/2020 (Thursday)

- **Time:** 4:34 am – 9:49 am
- **Location:** St. Louis County Eastbound I-44 before I-270
- **Event Type:** Two-Vehicle Crash
- **Estimated Initial Impact:** Rush Hour: 4 of 4 travel lanes affected equals (=) 100%
- **Incident Details:** TMC operators overheard radio traffic concerning an overturned tractor trailer. A tractor trailer loaded with 79,000 lbs. of oranges had overturned inside the work zone against the concrete barrier wall. The TMC dispatched MoDOT ER to the scene.
- **Action Taken:** St. Louis County PD were on scene allowing one lane of traffic through at 4:34 am. Fenton Fire Department and Fenton EMS arrived on scene at 4:37 am. Two ER units arrived on scene and provided traffic control blocking the three right lanes of Eastbound I-44 before I-270. Two additional ER units arrived to assess and assist with the removal of the tractor trailer. MSHP arrived on scene at 5:06 am. The heavy tow arrived on scene at 5:53 am and a second heavy tow arrived at 6:02 am. The left lane was closed at 8:33 am to upright the tractor trailer resulting in all lanes closed. The left lane was then reopened at 8:49 am. The number 2 lane re-opened at 9:00 am providing traffic relief and then closed again at 9:21 am for further removal and washdown. Lane 2 then re-opened at 9:28 am. All lanes opened at 9:32 am. The EOC, AE, Communication Staff, Motor Carriers, Health Department, and the MoDOT Incident Management Coordinator were all notified. The TMC messaged for the event and entered it into TMS to notify the public of the closure. Incident, update and cleared alerts were used to advise management of the closure. Traffic queued approximately 3.5 miles, but returned to normal approximately 17 minutes after all lanes were opened. The extended incident duration was from the tractor trailer being fully loaded with oranges, the need for the washdown and multiple heavy tows needed for assistance.
- **Event Duration:** 5 hours 15 minutes

	Eastbound I-44 before I-270	Left Shoulder	Lane 1	Lane 2	Lane 3	Lane 4	Right Shoulder
Closed Hours/Minutes		0:16	0:16	4:33	4:58	4:58	4:58





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Major Impact Traffic Incidents and Mitigation

5/5/2020 – 5/5/2020 (Tuesday – Wednesday)

- **Time:** 8:30 pm – 1:37 am ***Fatality***
- **Location:** St. Louis County Westbound I-44 at Elm Ave
- **Event Type:** Emergency Vehicles
- **Estimated Initial Impact:** Non-Rush Hour: 5 of 5 travel lanes affected equals (=) 100%
- **Incident Details:** Stranded driver along I-44 opened fire on two Webster Groves police officers, police officers returned fire, and driver resulted in a fatal. Scene was closed for investigation.
- **Action Taken:** The TMC operator received a phone call from police of the incident, the operator then confirmed the closure via CCTV and notified MoDOT Emergency Response to assist with traffic control. TMC Operators entered the event into ATMS and activated appropriate DMS boards. An incident alert, update, and clearance were sent out to the appropriate email groups. Community Relations, EOC and the Traffic Incident Coordinator were also notified. All lanes were closed, traffic was diverted off onto Hampton Ave. All on ramps to Westbound I-44 from Hampton to Elm were closed by Webster Groves PD and St. Louis City PD. Webster Groves Fire and Webster Groves EMS were all on the scene as well as a light tow for the vehicle. Crash investigation team responded and conducted their investigation. Traffic queued 1 mile at its peak and all traffic returned to normal after the incident cleared.
- **Event Duration:** 5 hours 7 minutes

	Westbound I-44 at Elm Ave	Left Shoulder	Lane 1	Lane 2	Lane 3	Lane 4	Lane 5	Right Shoulder
Closed Hours/Minutes		5:07	5:07	5:07	5:07	5:07	5:07	5:07





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